

Poly:lactide(s) with increased flexibility, suitable for film prodn.

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Poly lactides with increased flexibility are claimed (I). (I) are obtd. by mixing polylactides (II) with aliphatic polyesters (III) in the melt, granulating, cooling, drying, crystallising by raising the temp. and tempering the crystallised granules for 2-50 hrs. at 5-20 deg.C below the m.pt. of (II), to give a block copolymer. Pref. wt. ratio (II):(III) = (9:1)-(2:8), more pref. (8:2)-(4:6) esp. pref. (6:4)-(5:5). (II) is homopolymeric L- or D-polylactide, or a copolymer of L- or D-lactide with not more than 5 mole % 1,3-dioxan-2-one, 1,4-dioxan-2-one, lactone and/or other lactide. (III) has the structure -(CH₂)_n-COO- (with n = 2-20) pref. (III) is poly-epsilon-caprolactone (PCL).

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